

Pasadena, Cal.
Jan. 23, 1931

Dear Beale,

What in — is happening at Cornell - seems as though I haven't heard for an age. Things are going along here quite smoothly. Between Beale, Andy and myself we have the greenhouses crowded to overflowing — there also are Steyermark & Emerson with *Oenotheras* and Lammerts with tobacco.

I was surprised the other day to find some of my corn at the sporocyte stage. I have looked at only a few of the new D intercrosses thus far. Result on one new one: $D_6 \times D_3^*$ $\xrightarrow{x_1, x_{12} \rightarrow 3 \text{ rings}}$

* one such plant in each pot

here there is only one chromosome of 4 plus left that is smaller than satellite. \therefore is #10 or 7

$D_6 \times D_3^* \xrightarrow{\text{ring of } 6 + 7 \text{ pairs}}$

\therefore the small chromosome of D_3 is also in D_6 , probably #7 (the smallest) I have a cytological test on this with a trisomic.

Also, the other chromosome cannot be 8_b or f_b — must be 3, 3, or 5.

Oh yes, in reciprocal translocations in *Drosophila*, as you may know, they also get non-disjunction as you found for Q_2 . Where they are equal, there is as much non-disjunction in one pair as in the other; where they are unequal the amount increases for the one which received the longer piece. If we could pick up several between satellite and the knob chromosome, this might be worked for corn. By the way, have you found whether the knob chromosome is crossover or will your material be along a little later?

I heard indirectly today that you have applied for a Research Fellowship for out here. Fine! May I make a suggestion or two, if it will not be cutting in. I was talking to Andy about that and the situation here as regards Q's. I think it would be wise for you to write to both Dr. Morgan and Dr. Anderson stating that you ~~would like~~ ^{are} to apply for a fellowship and would like to spend it here at Cal. Tech. — or something of that nature. As you probably know, this is supposed to precede application —

That is a minor matter, the main thing
is that in this case, it would be best that
Dr. Morgan know something about your
intentions or desires. ~~before he sees you~~

~~for~~ Cal. Tech. is not Co-Educational
so that the matter will have to be
brought up before the faculty. I am
quite certain that everything will be
O.K. - but the matter has to be settled.
What will be your relation to Cornell
if you receive the Fellowship? - Will
^{merely} you be on leave of absence for a
year? If that is the case, I might
say that your case would be a lot
better. They would know that you
had a job waiting for you and
the question of placing would not come
up. You might explain the
situation to Anderson. I am
certain he will do all he can to
get you out here. All this is
merely a suggestion as to procedure.
I hope you get the fellowship, and
that Cal Tech will ~~be~~ ^{be} the lucky one.
What are you planning to work on - Any offshoots are yours
for the asking.

How's everything there? Any new
or promising grad students?

Has Emerson received any?
I suppose everyone is settled in the
new building, and probably already
crowded for space.

I haven't been to much here in
the line of entertainment - an
occasional movie and Bridge party.
Have been out to the Mojave desert a
couple of times and spent Xmas at
Brawley at the south end of the
Imperial Valley. Heard about the
snowstorms etc. back there - hard
for me to realize it is winter. I don't
believe spring fever will bother out
here, so many of the days are fine -
so far - I may change my tune if a rainy
season sets in.

Well, must get this off to
catch the air mail. — Give my regards
to your cytological sidekick. Is she
snowed under with work also?

Sincerely yours,
Charlie.